

ABSTRACT OF THE DISCLOSURE

A dielectric recording / reproducing head (40a) is provided with: a probe (11) for recording / reproducing data in / from a dielectric recording medium (1); and a slider (12) placed so as to surround the probe (11) and containing an electric conductor. It may be provided with a probe supporting device (14) containing an insulating member such as resin materials in the gap between the probe (11) and the slider (12). The probe (11) has a longitudinal shape with a longer length in the width direction of the track (5), and covers the track (5) and one portion of adjacent spaces. The slider (12) can be used, by earthing it, as a return electrode for returning a high-frequency electric field applied from the probe (11) to the dielectric recording medium (1) in order to reproduce a signal. The probe (11) is set not to project from a surface of the slider (12) facing to the dielectric recording medium (1).